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L2: Entry 1 of 2

File: USPT

Jun 25, 2002

US-PAT-NO: 6410129

DOCUMENT-IDENTIFIER: US 6410129 B2

TITLE: Low stress relaxation elastomeric materials

DATE-ISSUED: June 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zhang; John Jianbin	Cincinnati	OH		
Curro; John Joseph	Cincinnati	OH		
Mansfield; Michele Ann	Cincinnati	OH		

US-CL-CURRENT: 428/318.6; 428/198, 428/319.3, 442/373

ABSTRACT:

A low stress relaxation elastomeric material comprises a block copolymer having an elastomeric soft block portion and thermoplastic hard block portions, at least one vinylarene resin and mineral oil. The elastomeric material may be used in a film comprising an elastomeric layer and at least one substantially less elastomeric skin layer. The skin layer comprises a thermoplastic polymer such as polyolefins. The film exhibits desired elastic and stress relaxation properties at body temperature. The film is useful in forming a macroscopically-expanded, three-dimensional elastomeric web.

35 Claims, 21 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 12

Full	Title	Classen	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 2. Document ID: US 6002064 A

L2: Entry 2 of 2

File: USPT

Dec 14, 1999

US-PAT-NO: 6002064DOCUMENT-IDENTIFIER: US 6002064 A

TITLE: Stretch-thinned breathable films resistant to blood and virus penetration

DATE-ISSUED: December 14, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kobylyvker; Peter Michailovich	Marietta	GA		
Hetzler; Kevin George	Alpharetta	GA		

US-CL-CURRENT: 604/367; 428/323, 428/327, 428/339, 604/358, 604/366

ABSTRACT:

A stretch-thinned polymeric film is formed from a mixture of a polymer matrix including a low crystallinity propylene polymer having not more than about 30% crystallinity, with a particulate filler. The stretch-thinned film is breathable to water vapor yet resistant to penetration by liquids and viruses. The film can be laminated to a nonwoven web, and is useful in a wide variety of medical apparel and related products.

49 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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